Title (en)

Porous diaphragm for electrochemical cell.

Title (de)

Poröses Diaphragma für elektrochemische Zelle.

Title (fr)

Diaphragme poreux pour cellule électrochimique.

Publication

EP 0216428 A1 19870401 (EN)

Application

EP 86201622 A 19860918

Priority

US 77748385 A 19850919

Abstract (en)

A porous diaphragm (24) is disclosed for use in an electrochemical cell having at least one porous and self-draining electrode (18). Said diaphragm provides a means of obtaining greater uniformity of flow of an electrolyte through the diaphragm even when exposed to an electrolyte hydraulic head pressure which varies over the depth of the electrolyte in the cell. The porous diaphragm of the invention comprises a plurality of layers of a microporous polyolefin film or a composite diaphragm of a plurality of layers of said microporous polyolefin film (32) and a support fabric (34).

IPC 1-7

C25B 9/00; C25B 13/02

IPC 8 full level

C25B 1/30 (2006.01); **C25B 1/46** (2006.01); **C25B 9/19** (2021.01); **C25B 13/02** (2006.01); **C25B 13/08** (2006.01)

CPC (source: EP US)

C25B 9/40 (2021.01 - EP US); **C25B 9/70** (2021.01 - EP US); **C25B 13/02** (2013.01 - EP US)

Citation (search report)

- [A] US 4534845 A 19850813 - MCINTYRE JAMES A [US], et al
- [A] US 2860100 A 19581111 - KONRAD KRZYSZKOWSKI LESZEK JAN
- [A] EP 0086896 A1 19830831 - DOW CHEMICAL CO [US]
- [A] FR 2170247 A1 19730914 - ICI LTD [GB]
- [AD] US 4118305 A 19781003 - OLOMAN COLIN WILLIAM, et al

Cited by

EP0248433A3; EP0360536A3; WO2020249988A1; EP3983577B1

Designated contracting state (EPC)

AT BE DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0216428 A1 19870401; **EP 0216428 B1 19900613**; AT E53609 T1 19900615; AU 587282 B2 19890810; AU 6293886 A 19870326; BR 8604492 A 19870519; CA 1293951 C 19920107; DE 3671919 D1 19900719; JP H0115593 B2 19890317; JP S62263989 A 19871116; NO 167678 B 19910819; NO 167678 C 19911127; NO 863738 D0 19860918; NO 863738 L 19870320; NZ 217627 A 19880830; US 4891107 A 19900102

DOCDB simple family (application)

EP 86201622 A 19860918; AT 86201622 T 19860918; AU 6293886 A 19860919; BR 8604492 A 19860919; CA 518481 A 19860918; DE 3671919 T 19860918; JP 21987986 A 19860919; NO 863738 A 19860918; NZ 21762786 A 19860918; US 77748385 A 19850919